

What is Claimed is:

1. (Amended) A separator (1) for a fuel battery in which a through hole (4) is provided in gasket forming grooves (10, 11) provided in a separator main body (2) made of a mixture of carbon powder and a resin, and forming is made with rubber, whereby a gasket (3) is integrally formed in both surfaces (2a, 2b) of said separator main body, wherein a groove width (D or d) of said gasket forming groove (10 or 11) formed in one surface (2a or 2b) of said separator main body (2) is made wider than a groove width (d or D) of said gasket forming groove (11 or 10) formed in the other surface (2b or 2a).

2. (Amended) A separator (1) for a fuel battery in which a through hole (4) is provided in gasket forming grooves (10, 11) provided in a separator main body (2) made of a mixture of carbon powder and a resin, and forming is made with rubber, whereby a gasket (3) is integrally formed in both surfaces (2a, 2b) of said separator main body, wherein groove side surfaces (16, 17) in said gasket forming grooves (10, 11) formed in said separator main body (2) are formed in an inclined shape.

3. (Amended) A separator (1) for a fuel battery in which a through hole (4) is provided in gasket forming

grooves (10, 11) provided in a separator main body (2) made of a mixture of carbon powder and a resin, and forming is made with rubber, whereby a gasket (3) is integrally formed in both surfaces (2a, 2b) of said separator main body, wherein a curvature is provided in corner portions (14) of groove bottom surfaces in said gasket forming grooves (10, 11) formed in said separator main body.

4. (Amended) A separator (1) for a fuel battery in which forming is made with rubber in a gasket forming groove (10 or 11) formed in at least one (2a or 2b) of surfaces of a separator main body (2) having grooves (10, 11) formed in both surfaces (2a, 2b) and made of a mixture of carbon powder and a resin, whereby a gasket (3) is formed in said separator main body (2), wherein a groove width (D or d) of said gasket forming groove (10 or 11) formed in one surface (2a or 2b) of said separator main body (2) is made wider than a groove width (d or D) of said groove (11 or 10) formed in the other surface (2b or 2a) being the back of said gasket forming groove (10 or 11).

5. (Amended) A separator (1) for a fuel battery in which forming is made with rubber in a gasket forming groove (10 or 11) formed in at least one (2a or 2b) of surfaces of a separator main body (2) having grooves

(10, 11) formed in both surfaces (2a, 2b) and made of a mixture of carbon powder and a resin, whereby a gasket (3) is formed in said separator main body (2), wherein groove side surfaces (16, 17) in said gasket forming groove (10 or 11) formed in one surface (2a or 2b) of said separator main body (2) and in said groove (11 or 10) formed in the other surface (2b or 2a) being the back of said gasket forming groove (10 or 11) are formed in an inclined shape.

6. (Amended) A separator (1) for a fuel battery in which forming is made with rubber in a gasket forming groove (10 or 11) formed in at least one (2a or 2b) of surfaces of a separator main body (2) having grooves (10, 11) formed in both surfaces (2a, 2b) and made of a mixture of carbon powder and a resin, whereby a gasket (3) is formed in said separator main body (2), wherein a curvature is provided in corner portions (14) of groove bottom surfaces in said gasket forming groove (10 or 11) formed in one surface (2a or 2b) of said separator main body (2) and in said groove (11 or 10) formed in the other surface (2b or 2a) being the back of said gasket forming groove (10 or 11).

Description on the basis of Provision of PCT 19 (1)

Claims 1-6 are amended so as to clarify the matter that the separator main body (2) is made of the mixture of carbon powder and a resin.

In particular, claims 1-3 of the present invention provides the structure for preventing any trouble from being generated in the groove bottom surface or the groove bottom surface corner portion of the gasket forming groove (10 or 11), at a time when the forming is made with rubber in the gasket forming groove (10 or 11) having the through hole (4) provided in the separator main body (2) made of the mixture of carbon powder and a resin, and clarifies that the structure is not applied to the separator main body made of a metal.

Further, claims 4-6 of the present invention provides the structure for preventing any trouble from being generated in the groove bottom surface or the groove bottom surface corner portion of the gasket forming groove (10 or 11), at a time when the forming is made with rubber in the gasket forming groove (10 or 11) formed in at least one surface (2a or 2b) of the separator main body (2) having the grooves (10, 11) formed in both the surfaces (2a, 2b) and made of the mixture of carbon powder and a resin, and clarifies

that the structure is not applied to the separator main
body made of a metal.